IN THE CLAIMS

Please cancel Claims 20-27 and 31-35 without prejudice.

1. (Original) A method of capturing an image using an ultrasound system, comprising:

surveying the image to collect motion data; analyzing the motion data to identify a flow in the image; and

scanning a limited region of the image containing the flow with a flow imaging technique.

- 2. (Original) The method of claim 1, wherein surveying step comprises the step of collecting a sample of color flow data.
- 3. (Original) The method of claim 2, wherein surveying step comprises the step of collecting contour data.
- 4. (Original) The method of claim 1, wherein the analyzing step generates a motion map that identifies flow and non-flow regions.
- 5. (Original) The method of claim 1, wherein the flow imaging technique includes a technique selected from the group consisting of: color flow, time domain correlation, speckle tracking, strain imaging, pulse wave Doppler, and continuous wave Doppler.
- 6. (Original) The method of claim 1, wherein the flow is associated with a valve in a heart.

- 7. (Original) The method of claim 1, wherein the flow indicates a blood vessel.
- 8. (Original) The method of claim 1, wherein the scanning step uses multi-line beamforming.
- 9. (Original) The method of claim 1, wherein the flow is periodically tracked and the limited region of the image containing the flow is automatically adjusted.
- 10. (Original) The method of claim 1, wherein the limited region for acquisition is a region selected from the group consisting of a 3D pie slice, a cube, an arbitrary shape, and a collection of shapes.
- 11. (Original) The method of claim 1, wherein the scanning step includes adjusting a set of acquisition parameters selected from the group consisting of b-mode line densities, colorflow line densities, pulse repetition frequency, and ensemble length.
- 12. (Original) An ultrasound system, comprising:
- a survey system for collecting motion data from a target image;
- a segmentation system for mapping a region of flow within the image based on the motion data; and
- a flow acquisition system that automatically limits the collection of flow image data within the image to the region of flow.
- 13. (Original) The ultrasound system of claim 12, wherein the motion data comprises color flow data.

- 14. (Original) The ultrasound system of claim 13, wherein the motion data comprises contour data.
- 15. (Original) The ultrasound system of claim 12, wherein the flow acquisition system collects data using an imaging technique selected from the group consisting of: color flow, time domain correlation, speckle tracking, strain imaging, pulse wave Doppler, and continuous wave Doppler.
- 16. (Original) The ultrasound system of claim 12, wherein the flow acquisition system uses multi-line beamforming.
- 17. (Original) The ultrasound system of claim 12, wherein the region of flow is periodically tracked and automatically adjusted.
- 18. (Original) The ultrasound system of claim 12, wherein region of flow is a region selected from the group consisting of a 3D pie slice, a cube, an arbitrary shape, and a collection of shapes.
- 19. (Original) The ultrasound system of claim 12, wherein the flow acquisition system includes a set of acquisition parameters selected from the group consisting of: b-mode line densities, colorflow line densities, pulse repetition frequency, and ensemble length.

Claims 20-27. (Cancelled)

28. (Original) A program product stored on a recordable medium for optimizing ultrasound data, comprising:

means for receiving survey data representative of motion in a volume of ultrasound data;
means for mapping the survey data into a motion map that indicates flow and non-flow regions; and
means for limiting the collection of flow data to the flow

- 29. (Original) The program product of claim 28, including further means for collecting grayscale data interspersed with flow data.
- 30. (Original) The program product of claim 28, wherein the collection of flow data is achieved with a technique selected from the group consisting of: color flow, time domain correlation, speckle tracking, strain imaging, pulse wave Doppler, and continuous wave Doppler.

Claims 31-35. (Cancelled)

regions.